

AMENDMENT TO THE CLAIMS

1. (Currently Amended) An apparatus for determining a sequence of sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by a word recognition unit in response to a common input word to be recognised, the apparatus comprising:

a receiver operable to receive ~~means for receiving~~ a first sequence of sub-word unit labels ~~units~~ representative of a first one of said at least two word alternatives ~~output by said word recognition unit and operable to receive words and for receiving~~ a second sequence of sub-word unit labels ~~units~~ representative of a second one of said at least two ~~words~~ word alternatives output by said word recognition unit;

an aligner operable to align and to compare ~~means for aligning and for comparing~~ sub-word unit labels ~~units~~ of the first sequence with sub-word unit labels ~~units~~ of the second sequence to form a number of aligned pairs of sub-word ~~units~~ unit labels; and

a processor operable to process the aligned pairs of sub-word unit labels ~~formed by said aligner, to determine an output~~ ~~means for determining~~ sequence of sub-word unit labels ~~units~~ representative of the ~~received words in dependence upon the aligned pairs of sub-word units determined by said aligning and comparing means~~ at least two word alternatives.

2. (Currently Amended) An apparatus according to claim 1, wherein said processor ~~determining means~~ is operable to determine said output sequence of sub-word unit labels ~~units~~ by determining, for each aligned pair of sub-word ~~units~~ unit

labels, a sub-word unit label that ~~[[it]]~~ is confusingly similar to the first and second sub-word unit labels ~~units~~ of the aligned pair.

3. (Currently Amended) An apparatus according to claim 2, wherein said processor ~~determining means~~ comprises:

a first ~~comparing means for comparing~~ comparator operable to compare, for each aligned pair, the first sequence sub-word unit label in the aligned pair with each of a plurality of sub-word unit labels ~~units~~ taken from a set of predetermined sub-word ~~units~~ unit labels, to provide a corresponding plurality of comparison scores representative of the similarities between the first sequence sub-word unit label and the respective sub-word unit labels ~~units~~ of the set;

a second ~~comparing means for comparing~~ comparator operable to compare, for each aligned pair, the second sequence sub-word unit label in the aligned pair with each of said plurality of sub-word unit labels ~~units~~ from the set, to provide a further corresponding plurality of comparison scores representative of the similarities between said second sequence sub-word unit label and the respective sub-word unit labels ~~units~~ of the set;

a combiner operable to combine ~~means for combining~~ the comparison scores obtained when comparing the first and second sequence sub-word unit labels ~~units~~ in the aligned pair with the same sub-word unit label from the set, to generate a plurality of combined comparison scores;

a third ~~comparing means for comparing~~ comparator operable to compare,

for each aligned pair, the combined comparison scores generated by said combiner ~~combining means~~ for the aligned pair; and

~~means for determining~~ a determiner operable to determine, for each aligned pair of sub-word ~~units~~ unit labels, a sub-word unit label representative of the sub-word unit labels ~~units~~ in the aligned pair in dependence upon a comparison result output by said third comparator ~~comparing means~~ for the aligned pair.

4. (Currently Amended) An apparatus according to claim 3, wherein said first and second comparators ~~comparing means~~ are operable to compare the first sequence sub-word unit label and the second sequence sub-word unit label respectively with each of the sub-word unit labels ~~units~~ in said set of sub-word ~~units~~ unit labels.

5. (Currently Amended) An apparatus according to claim 3, wherein said first and second comparators ~~comparing means~~ are operable to provide comparison scores which are indicative of a probability of confusing the corresponding sub-word unit label taken from the set of predetermined sub-word unit labels ~~units~~ as the sub-word unit label in the aligned pair.

6. (Currently Amended) An apparatus according to claim 5, wherein said combiner ~~combining means~~ is operable to combine the comparison scores in order to multiply the probabilities of confusing the corresponding sub-word unit label taken from the set as the sub-word unit labels ~~units~~ in the aligned pair.

7. (Currently Amended) An apparatus according to claim 6, wherein each of said sub-word unit labels ~~units~~ in said set of predetermined sub-word unit labels ~~units~~ has a predetermined probability of occurring within a sequence of sub-word unit labels ~~units~~ and wherein said combiner ~~combining means~~ is operable to weight ~~weigh~~ each of said combined comparison scores in dependence upon the respective probability of occurrence for the sub-word unit label of the set used to generate the combined comparison score.

8. (Currently Amended) An apparatus according to claim 7, wherein said combiner ~~combining means~~ is operable to combine said comparison scores by calculating:

$$P(d_i^1 | p_r) P(d_j^2 | p_r) P(p_r)$$

where d_i^1 ; and d_j^2 ; are an aligned pair of first and second sequence sub-word unit labels ~~units~~ respectively, $P(d_i^1 | p_r) [(P(d_i^1 | p_r))]$ is the comparison score output by said first comparator ~~comparing means~~ and is representative of the probability of confusing set sub-word unit label p_r as first sequence sub-word unit label d_i^1 ; $P(d_j^2 | p_r)$ is the comparison score output by said second comparator ~~comparing means~~ and is representative of the probability of confusing set sub-word unit label p_r as second sequence sub-word unit label d_j^2 ; and $P(p_r)$ is a weight which represents the probability of set sub-word unit label p_r occurring in a sequence of sub-word ~~units~~ unit labels.

9. (Currently Amended) An apparatus according to claim 8, wherein said third comparator ~~comparing means~~ is operable to identify the set sub-word unit label p_r which gives the maximum combined comparison score and wherein said determiner ~~determining means~~ is operable to determine said sub-word unit label representative of the sub-word unit labels ~~units~~ in the aligned pair as being the sub-word unit label which provides the maximum combined comparison score.

10. (Currently Amended) An apparatus according to claim 6, wherein said ~~comparison scores represent log probabilities and wherein said~~ compare combiner ~~combining means~~ is operable to multiply said probabilities by adding the respective comparison scores.

11. (Currently Amended) An apparatus according to claim 3, wherein each of the sub-word unit labels ~~units~~ in said first and second sequences of sub-word unit labels ~~units~~ belong to said set of predetermined sub-word unit labels ~~units~~ and wherein said first and second comparators ~~comparing means~~ are operable to provide said comparison scores using predetermined data which relate the sub-word unit labels ~~units~~ in said set to each other.

12. (Currently Amended) An apparatus according to claim 11, wherein said predetermined data comprises, for each sub-word unit label in the set of sub-word ~~units~~ unit labels, a probability for confusing that sub-word unit label with each of the other sub-word unit labels ~~units~~ in the set of sub-word ~~units~~ unit labels.

13. (Currently Amended) An apparatus according to claim 1, wherein said aligner ~~aligning and comparing means~~ comprises a dynamic programmer operable to align programming means for aligning said first and second sequences of sub-word unit labels ~~units~~ using a dynamic programming technique.

14. (Currently Amended) An apparatus according to claim 13, wherein said dynamic programmer ~~programming means~~ is operable to determine an optimum alignment between said first and second sequences of sub-word ~~units~~ unit labels.

15. (Currently Amended) An apparatus according to claim 1, wherein each of said sub-word unit labels ~~units~~ represents a phoneme.

16. (Currently Amended) An apparatus according to claim 1, wherein said receiver ~~receiving means~~ is operable to receive a third sequence of sub-word unit labels representative of a third word alternative ~~one of the words~~ output by said word recognition unit and wherein said aligner ~~aligning and comparing means~~ is operable to simultaneously align and compare the sub-word unit labels ~~units~~ of the first, second and third sequences of sub-word unit labels ~~units~~.

17. (Currently Amended) An apparatus according to claim 1, wherein said receiver ~~receiving means~~ is operable to receive a third sequence of sub-word unit labels ~~units~~ representative of a third word alternative ~~one of said words~~ output by said word

recognition unit and wherein said aligner ~~aligning and comparing means~~ is operable to align and compare two sequences of sub-word unit labels ~~units~~ at a time.

18. (Currently Amended) An apparatus according to claim 1, further comprising a word to sub-word unit label dictionary which is operable to receive the at least two word alternatives ~~words~~ output by said word recognition unit and to generate therefrom said first and second sequences of sub-word unit labels ~~units~~.

19. (Currently Amended) An apparatus according to claim 1, further comprising an annotator operable to annotate ~~means for annotating~~ a data file using the output sequence of sub-word unit labels ~~units~~ output determined by said ~~determining~~ means processor.

20. (Currently Amended) An apparatus according to claim 19, wherein said annotator ~~annotating means~~ is operable to annotate said data file using said output sequence of sub-word unit labels ~~units~~ and said at least two word alternatives ~~words~~ output by said word recognition unit.

21. (Currently Amended) An apparatus according to claim 20, wherein said output sequence of sub-word unit labels ~~units~~ and said at least two word alternatives ~~words~~ are combined to form annotation data for the data file.

22. (Original) An apparatus according to claim 19, wherein said data file is one of: an audio data file, a video data file, an image data file or a text data file.

23. (Original) An apparatus according to claim 1, wherein said word recognition unit comprises a speech recognition system.

24. (Original) An apparatus according to claim 1, wherein said word recognition unit comprises a handwriting recognition system.

25. (Currently Amended) An apparatus for determining a sequence of sub-word unit labels ~~units~~ representative of at least two words, the apparatus comprising:

a receiver operable to receive ~~means for receiving~~ a first sequence of sub-word unit labels ~~units~~ representative of a first word and ~~for receiving~~ a second sequence of sub-word unit labels ~~units~~ representative of a second word;

an aligner operable to align ~~means for aligning~~ sub-word unit labels ~~units~~ of the first sequence with sub-word unit labels ~~units~~ of the second sequence to form a number of aligned pairs of sub-word unit labels ~~units~~; and

~~means for determining~~ a processor operable to process the aligned pairs of sub-word unit labels formed by said aligner to determine an output sequence of sub-word unit labels ~~units~~ representative of the first and second sequences of sub-word unit labels ~~units~~ by determining, for each aligned pair of sub-word unit labels ~~units~~, a sub-word unit label that is confusingly similar to the ~~first and second~~ sub-word unit labels ~~units~~ of the aligned pair.

26. (Currently Amended) An apparatus for determining a sequence of sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by a word recognition unit in response to a common input word to be recognised, the apparatus comprising:

~~a receiver operable to receive~~ means for receiving the word alternatives ~~words~~ output by the word recognition unit;

~~a generator operable to generate, for each received word alternative,~~ means for generating a sequence of sub-word unit labels ~~units~~ representative of ~~each of the word alternative~~ received words;

~~an aligner operable to align and compare~~ means for aligning and comparing the sub-word unit labels ~~units from of~~ each generated sequence of sub-word unit labels ~~units~~ to identify a number aligned groups of sub-word unit labels ~~units~~; and

~~means for determining a processor operable to process the aligned groups of~~ sub-word unit labels identified by said aligner, to determine an output sequence of sub-word unit labels ~~units~~ representative of the received ~~words in dependence upon the aligned groups of sub-word units determined by said aligning and comparing means~~ word alternatives.

27. (Currently Amended) An apparatus for determining a sequence of sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by a word recognition unit in response to a common input word to be recognised, the apparatus comprising:

~~a receiver operable to receive means for receiving the at least two word alternatives~~ words output by the word recognition unit;

~~a generator operable to generate, for each received word alternative, means for generating~~ a sequence of sub-word unit labels ~~units~~ representative of ~~each of the~~ received word alternative ~~words~~;

~~an aligner operable to align and compare means for aligning and comparing~~ the sub-word unit labels ~~units from of~~ each generated sequence of sub-word unit labels ~~units~~ to identify a number aligned groups of sub-word unit labels ~~units~~; and

~~means for determining a processor operable to process the aligned groups of sub-word unit labels identified by said aligner, to determine an output sequence of sub-word unit labels units representative of the first and second sequences of sub-word units at least two word alternatives by determining, for each of the sub-word units in an aligned group of sub-word unit labels, a sub-word unit label that it confusingly similar to the sub-word unit labels units of the group.~~

28. (Currently Amended) An apparatus for determining a sequence of sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by a word recognition unit in response to a common input word to be recognised, the apparatus comprising:

~~a receiver operable to receive means for receiving~~ a first sequence of sub-word unit labels ~~units~~ representative of a first one of said at least two word alternatives ~~output by said word recognition unit and operable to receive words and for receiving a~~

second sequence of sub-word unit labels ~~units~~ representative of a second one of said at least two word alternatives output by said word recognition unit ~~words~~;

an aligner operable to align and compare ~~means for aligning and for comparing~~ sub-word unit labels ~~units~~ of the first sequence with sub-word unit labels ~~units~~ of the second sequence to form a number of aligned pairs of sub-word unit labels ~~units~~;

a first comparator operable to compare, ~~comparing means for comparing,~~ for each aligned pair, the first sequence sub-word unit label in the aligned pair with each of a plurality of sub-word unit labels ~~units~~ taken from a set of predetermined sub-word unit labels ~~units~~, to provide a corresponding plurality of comparison scores representative of the similarities between the first sequence sub-word unit label and the respective sub-word unit labels ~~units~~ of the set;

a second comparator operable to compare ~~comparing means for comparing,~~ for each aligned pair, the second sequence sub-word unit label in the aligned pair with each of said plurality of sub-word unit labels ~~units~~ from the set, to provide a further corresponding plurality of comparison scores representative of the similarities between said second sequence sub-word unit label and the respective sub-word unit labels ~~units~~ of the set;

a combiner operable to combine ~~means for combining~~ the comparison scores obtained when comparing the first and second sequence sub-word unit labels ~~units~~ in the aligned pair with the same sub-word unit label from the set, to generate a plurality of combined comparison scores;

a third comparator operable to compare, ~~comparing means for comparing,~~

for each aligned pair, the combined comparison scores generated by said combiner
~~combining means~~ for the aligned pair; and

a determiner operable to determine ~~means for determining~~, for each aligned
pair of sub-word unit labels ~~units~~, a sub-word unit label representative of the sub-word unit
labels ~~units~~ in the aligned pair in dependence upon a comparison result output by said third
comparator ~~comparing means~~ for the aligned pair.

29. (Currently Amended) A method of determining a sequence of
sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by
a word recognition unit in response to a common input word to be recognised, the method
comprising:

receiving a first sequence of sub-word unit labels ~~units~~ representative of a
first one of said at least two word alternatives output by said word recognition unit ~~words~~;

receiving a second sequence of sub-word unit labels ~~units~~ representative of
a second one of said at least two word alternatives output by said word recognition unit
~~words~~;

aligning and comparing sub-word unit labels ~~units~~ of the first sequence with
sub-word unit labels ~~units~~ of the second sequence to form a number of aligned pairs of
sub-word unit labels ~~units~~; and

processing the aligned pairs of sub-word unit labels formed in said aligning
step, to determine an output ~~determining~~ a sequence of sub-word unit labels ~~units~~
representative of the at least two word alternatives ~~received sequences of sub-word units in~~

~~dependence upon the aligned pairs of sub-word units determined in said aligning and comparing step.~~

30. (Currently Amended) A method according to claim 29, wherein said ~~processing~~ ~~determining~~ step determines said output sequence of sub-word unit labels ~~units~~ by determining, for each aligned pair of sub-word unit labels ~~units~~, a sub-word unit label that is confusingly similar to the first and second sub-word unit labels ~~units~~ of the aligned pair.

31. (Currently Amended) A method according to claim 29, wherein said ~~processing~~ ~~determining~~ step comprises:

a first comparing step of comparing, for each aligned pair, the first sequence sub-word unit label in the aligned pair with each of a plurality of sub-word unit labels ~~units~~ taken from a set of predetermined sub-word unit labels ~~units~~, to provide a corresponding plurality of comparison scores representative of the similarities between the first sequence sub-word unit label and the respective sub-word unit labels ~~units~~ of the set;

a second comparing step of comparing, for each aligned pair, the second sequence sub-word unit label in the aligned pair with each of said plurality of sub-word unit labels ~~units~~ from the set, to provide a further corresponding plurality of comparison scores representative of the similarities between said second sequence sub-word unit label and the respective sub-word unit labels ~~units~~ of the set;

combining the comparison scores obtained when comparing the first and second sequence sub-word unit labels ~~units~~ in the aligned pair with the same sub-word unit label from the set, to generate a plurality of combined comparison scores;

a third comparing step of comparing, for each aligned pair, the combined comparison scores generated in said combining step for the aligned pair; and

determining, for each aligned pair, a sub-word unit label representative of the sub-word unit labels ~~units~~ in the aligned pair in dependence upon a comparison result output from said third comparing step for the aligned pair.

32. (Currently Amended) A method according to claim 31, wherein said first and second comparing steps compare the first sequence sub-word unit label and the second sequence sub-word unit label respectively with each of the sub-word unit labels ~~units~~ in said set of sub-word unit labels ~~units~~.

33. (Currently Amended) A method according to claim 31, wherein said first and second comparing steps provide comparison scores which are indicative of a probability of confusing the corresponding sub-word unit label taken from the set of predetermined sub-word unit labels ~~units~~ as the sub-word unit label in the aligned pair.

34. (Currently Amended) A method according to claim 33, wherein said combining step combines the comparison scores in order to multiply the probabilities of

confusing the corresponding sub-word unit label taken from the set as the sub-word unit labels units in the aligned pair.

35. (Currently Amended) A method according to claim 34, wherein each of said sub-word unit labels units in said set of predetermined sub-word unit labels units has a predetermined probability of occurring within a sequence of sub-word unit labels units and wherein said combining step weights weighs each of said combined comparison scores in dependence upon the respective probability of occurrence for the sub-word unit label of the set used to generate the combined comparison score.

36. (Currently Amended) A method according to claim 35, wherein said combining step combines said comparison scores by calculating:

$$P(d_i^1|p_r)P(d_j^2|p_r)P(p_r)$$

where d_i^1 and d_j^2 are an aligned pair of first and second sequence sub-word unit labels units respectively; $P(d_i^1|p_r)$ is the comparison score output by said first comparing means step and is representative of the probability of confusing set sub-word unit label p_r as first sequence sub-word unit label d_i^1 ; $P(d_j^2|p_r)$ is the comparison score output by said second comparing means step and is representative of the probability of confusing set sub-word unit label p_r as second sequence sub-word unit label d_j^2 ; and $P(p_r)$ is a weight which represents the probability of set sub-word unit label p_r occurring in a sequence of sub-word unit labels units.

37. (Currently Amended) A method according to claim 36, wherein said third comparing step identifies the set sub-word unit label p_r which gives the maximum combined comparison score and wherein said determining step determines said sub-word unit label representative of the sub-word unit labels units in the aligned pair as being the sub-word unit label which provides the maximum combined comparison score.

38. (Original) A method according to claim 34, wherein said comparison scores represent log probabilities and wherein said combining step multiplies said probabilities by adding the respective comparison scores.

39. (Currently Amended) A method according to claim 31, wherein each of the sub-word unit labels units in said first and second sequences of sub-word units belong to said set of predetermined sub-word unit labels units and wherein said first and second comparing steps provide said comparison scores using predetermined data which relate the sub-word unit labels units in said set to each other.

40. (Currently Amended) A method according to claim 39, wherein said predetermined data comprises, for each sub-word unit label in the set of sub-word unit labels units, a probability for confusing that sub-word unit label with each of the other sub-word unit labels units in the set of sub-word unit labels units.

41. (Currently Amended) A method according to claim 29, wherein said aligning and comparing step uses a dynamic programming technique to align said first and second sequences of sub-word unit labels ~~units~~.

42. (Currently Amended) A method according to claim 41, wherein said dynamic programming technique determines an optimum alignment between said first and second sequences of sub-word unit labels ~~units~~.

43. (Currently Amended) A method according to claim 29, wherein each of said sub-word unit labels ~~units~~ represents a phoneme.

44. (Currently Amended) A method according to claim 29, further comprising receiving a third sequence of sub-word unit labels representative of a third word alternative ~~one of the words~~ output by said word recognition unit and wherein said aligning and comparing step simultaneously aligns and compares the sub-word unit labels ~~units~~ of the first, second and third sequences of sub-word unit labels ~~units~~.

45. (Currently Amended) A method according to claim 29, further comprising receiving a third sequence of sub-word unit labels ~~units~~ representative of a third word alternative ~~one of said words~~ output by said recognition unit and wherein said aligning and comparing step aligns and compares two sequences of sub-word unit labels ~~units~~ at a time.

46. (Currently Amended) A method according to claim 29, further comprising the step of using a word to sub-word unit label dictionary to convert the words output by said word recognition unit into said sequences of sub-word unit labels ~~units~~.

47. (Currently Amended) A method according to claim 29, further comprising the step of annotating a data file using the sub-word unit labels determined ~~units~~ output by said processing ~~determining~~ step.

48. (Currently Amended) A method according to claim 47, wherein said annotating step annotates said data file using said output sequence of sub-word unit labels ~~units~~ and said word alternatives ~~words~~ output by said word recognition unit.

49. (Currently Amended) A method according to claim 48, wherein said output sequence of sub-word unit labels ~~units~~ and said word alternatives ~~words~~ are combined to form annotation data for the data file.

50. (Original) A method according to claim 47, wherein said data file is one of: an audio data file, a video data file, an image data file, or a text data file.

51. (Original) A method according to claim 29, wherein said word recognition unit comprises a speech recognition system.

52. (Original) A method apparatus according to claim 29, wherein said word recognition unit comprises a handwriting recognition system.

53. (Currently Amended) A method of determining a sequence of sub-word unit labels ~~units~~ representative of at least two words, the method comprising ~~the~~ steps of:

receiving a first sequence of sub-word unit labels ~~units~~ representative of a first word;

receiving a second sequence of sub-word unit labels ~~units~~ representative of a second word;

aligning sub-word unit labels ~~units~~ of the first sequence with sub-word unit labels ~~units~~ of the second sequence to form a number of aligned pairs of sub-word unit labels ~~units~~; and

processing the aligned pairs of sub-word unit labels formed in said aligning step, to determine an output ~~determining~~ a sequence of sub-word unit labels ~~units~~ representative of the first and second sequences of sub-word unit labels ~~units~~ by determining, for each aligned pair of sub-word unit labels ~~units~~, a sub-word unit label that is confusingly similar to the ~~first and second~~ sub-word unit labels ~~units~~ of the aligned pair.

54. (Currently Amended) A method of determining a sequence of sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by a

word recognition unit in response to a common input word to be recognised, the method comprising the steps of:

receiving the word alternative ~~words~~ output by the word recognition unit;

generating, for each received word alternative, a sequence of sub-word unit labels ~~units~~ representative of ~~each of the word alternative received words~~;

aligning and comparing the sub-word unit labels of ~~units from~~ each generated sequence of sub-word unit labels ~~units~~ to identify a number of aligned groups of sub-word unit labels ~~units~~; and

processing the aligned groups of sub-word unit labels identified in said aligning and comparing step to determine an output ~~determining a~~ sequence of sub-word unit labels ~~units~~ representative of the received word alternatives ~~words in dependence upon the aligned groups of sub-word units determined in said aligning and comparing step.~~

55. (Currently Amended) A method of determining a sequence of sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by a word recognition unit in response to a common input word to be recognised, the method comprising the steps of:

receiving the word alternatives ~~words~~ output by the word recognition unit;

generating, for each received word alternative, a sequence of sub-word unit labels ~~units~~ representative of ~~each of the word alternative received words~~;

aligning and comparing the sub-word unit labels of ~~units from~~ each generated sequence of sub-word unit labels ~~units~~ to identify a number of aligned groups of sub-word unit labels ~~units~~; and

processing the aligned groups of sub-word labels identified in said aligning and comparing step to determine an output ~~determining a sequence of sub-word unit labels units representative of the at least two word alternatives first and second sequences of sub-word units~~ by determining, for each ~~of the sub-word units in an aligned group~~, a sub-word unit label that is confusingly similar to the sub-word unit labels ~~units~~ of the group.

56. (Currently Amended) A method of determining a sequence of sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by a word recognition unit in response to a common input word to be recognised, the method comprising:

receiving a first sequence of sub-word unit labels ~~units~~ representative of a first one of said at least two word alternatives ~~output by said word recognition unit words~~;

receiving a second sequence of sub-word unit labels ~~units~~ representative of a second one of said at least two word alternative ~~output by said word recognition unit words~~;

aligning and comparing sub-word unit labels ~~units~~ of the first sequence with sub-word unit labels ~~units~~ of the second sequence to form a number of aligned pairs of sub-word unit labels ~~units~~;

a first comparing step of comparing, for each aligned pair, the first sequence sub-word unit label in the aligned pair with each of a plurality of sub-word unit labels ~~units~~ taken from a set of predetermined sub-word unit labels ~~units~~, to provide a corresponding plurality of comparison scores representative of the similarities between the first sequence sub-word unit label and the respective sub-word unit labels ~~units~~ of the set;

a second comparing step of comparing, for each aligned pair, the second sequence sub-word unit label in the aligned pair with each of said plurality of sub-word unit labels ~~units~~ from the set, to provide a further corresponding plurality of comparison scores representative of the similarities between said second sequence sub-word unit label and the respective sub-word unit labels ~~units~~ of the set;

combining the comparison scores obtained when comparing the first and second sequence sub-word unit labels ~~units~~ in the aligned pair with the same sub-word unit label from the set, to generate a plurality of combined comparison scores;

a third comparing step of comparing, for each aligned pair, the combined comparison scores generated in said combining step for the aligned pair; and

determining, for each aligned pair, a sub-word unit representative of the sub-word unit labels ~~units~~ in the aligned pair in dependence upon a comparison result output from said third comparing step for the aligned pair.

57. (Currently Amended) A computer readable medium storing computer executable process steps to perform a method of determining a sequence of sub-word unit labels ~~units~~ representative of at least two word alternatives ~~words~~ output by a word recognition unit in response to a common input word to be recognised, the process steps comprising ~~the steps of~~:

steps for receiving a first sequence of sub-word unit labels ~~units~~ representative of a first one of said at least two word alternatives output by said word recognition unit ~~words~~;

steps for receiving a second sequence of sub-word ~~unit labels~~ units
representative of a second one of said at least two word alternatives output by the word
recognition unit words;

steps for aligning and comparing sub-word ~~unit labels~~ units of the first
sequence with sub-word unit labels units of the second sequence to form a number of
aligned pairs of sub-word unit labels units; and

steps for processing the aligned pairs of sub-word unit labels formed in said
aligning and comparing step to determine an output ~~determining a sequence of sub-word~~
unit labels units representative of the at least two word alternatives ~~received sequences of~~
~~sub-word units in dependence upon the aligned pairs of sub-word units determined in said~~
~~aligning and comparing step.~~

58. (Currently Amended) A computer executable program stored on a
computer readable medium, the computer executable program for controlling a processor to
perform a method of determining a sequence of sub-word unit labels units representative of
at least two word alternatives ~~words~~ output by a word recognition unit in response to a
common input word to be recognised, the program comprising:

code for receiving a first sequence of sub-word unit labels units
representative of a first one of said at least two word alternatives output by the word
recognition unit words;

code for receiving a second sequence of sub-word unit labels units
representative of a second one of said at least two word alternative output by the word
recognition unit words;

code for aligning and comparing sub-word unit labels ~~units~~ of the first sequence with sub-word unit labels ~~units~~ of the second sequence to form a number of aligned pairs of sub-word unit labels ~~units~~; and

code for processing the aligned pairs of sub-word unit labels formed by said aligning and comparing code to determine an output ~~determining a~~ sequence of sub-word unit labels ~~units~~ representative of the at least two word alternatives ~~received sequences of~~ sub-word units in dependence upon the aligned pairs of sub-word units ~~determined in said aligning and comparing step.~~

59. (New) An apparatus according to claim 1, wherein said processor is operable to process the aligned pairs of sub-word unit labels formed by said aligner to determine an output sequence of sub-word unit labels that is different from the first sequence of sub-word unit labels and different from the second sequence of sub-word unit labels and which is representative of the at least two word alternatives.

60. (New) A method according to claim 29, wherein said processing step processes the aligned pairs of sub-word unit labels formed in said aligning step, to determine an output sequence of sub-word unit labels which is different from the first sequence of sub-word unit labels and different from the second sequence of sub-word unit labels and which is representative of the at least two word alternatives.

61. (New) An apparatus for determining a sequence of sub-word unit

labels representative of at least two word alternatives output by a word recognition unit in response to a common input word to be recognised, the apparatus comprising:

means for receiving a first sequence of sub-word unit labels representative of a first one of said at least two word alternatives output by said word recognition unit and for receiving a second sequence of sub-word unit labels representative of a second one of said at least two word alternatives output by said word recognition unit;

means for aligning and for comparing sub-word unit labels of the first sequence with sub-word labels of the second sequence to form a number of aligned pairs of sub-word unit labels; and

means for processing aligned pairs of sub-word unit labels formed by said aligning means to determine an output sequence of sub-word unit labels representative of the least two word alternatives.

62. (New) An apparatus for determining a sequence of sub-word unit labels representative of at least two words, the apparatus comprising:

means for receiving a first sequence of sub-word unit labels representative of a first word and for receiving a second sequence of sub-word unit labels representative of a second word;

means for aligning sub-word unit labels of the first sequence with sub-word unit labels of the second sequence to form a number aligned pairs of sub-word unit labels; and

means for processing the aligned pairs of sub-word unit labels formed by said aligning means to determine an output sequence of sub-word unit labels representative

of the first and second sequence of sub-word unit labels by determining, for each aligned pair of sub-word unit labels, a sub-word unit label that is confusingly similar to the sub-word unit labels of the aligned pair.

63. (New) An apparatus for determining a sequence of sub-word unit labels representative of at least two word alternatives output by a word recognition unit in response to a common input word to be recognised, the apparatus comprising:

means for receiving the word alternatives output by the word recognition unit;

means for generating for each received word alternative, a sequence of sub-word unit labels representative of the word alternative;

means for aligning and comparing the sub-word unit labels of each generated sequence of sub-word unit labels to identify a number aligned groups of sub-word unit labels; and

means for processing the aligned groups of sub-word unit labels identified by said aligning means, to determine an output sequence of sub-word unit labels representative of the received word alternatives.

64. (New) An apparatus for determining a sequence of sub-word unit labels representative of at least two word alternatives output by a word recognition unit in response to a common input word to be recognised, the apparatus comprising:

means for receiving the at least two word alternatives output by the word recognition unit;

means for generating, for each received word alternative, a sequence of sub-word unit labels representative of the received word alternative;

means for aligning and comparing the sub-word unit labels of each generated sequence of sub-word unit labels to identify a number aligned groups of sub-word unit labels; and

means for processing the aligned groups of sub-word unit labels identified by said aligning means to determine an output sequence of sub-word unit labels representative of the at least two word alternatives by determining, for each aligned group of sub-word unit labels, a sub-word unit label that is confusingly similar to the sub-word unit labels of the group.

65. (New) An apparatus for determining a sequence of sub-word unit labels representative of at least two word alternatives output by a word recognition unit in response to a common input word to be recognised, the apparatus comprising:

means for receiving a first sequence of sub-word unit labels representative of a first one of said at least two word alternatives output by said word recognition unit and for receiving a second sequence of sub-word unit labels representative of a second one of said at least two word alternatives output by said word recognition unit;

means for aligning and for comparing sub-word unit labels of the first sequence with sub-word unit labels of the second sequence to form a number of aligned pairs of sub-word unit labels;

first comparing means for comparing, for each aligned pair, the first sequence sub-word unit label in the aligned pair with each of a plurality of sub-word unit

labels taken from a set of predetermined sub-word unit labels, to provide a corresponding plurality of comparison scores representative of the similarities between the first sequence sub-word unit label and the respective sub-word unit labels of the set;

second comparing means for comparing, for each aligned pair, the second sequence sub-word unit label in the aligned pair with each of said plurality of sub-word unit labels from the set, to provide a further corresponding plurality of comparison scores representative of the similarities between said second sequence sub-word unit label and their respective sub-word unit labels of the set;

means for combining the comparison scores obtained when comparing the first and second sequence sub-word unit labels in the aligned pair with the same sub-word unit labels from the set, to generate a plurality of combined comparison scores;

third comparing means for comparing, for each aligned pair, the combined comparison scores generated by said combining means for the aligned pair; and

means for determining, for each aligned pair of sub-word unit labels, a sub-word unit label representative of the sub-word unit labels in the aligned pair in dependence upon a comparison result output by said third comparing means for the aligned pair.